



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/654,618	09/04/2003	Young-Chan Kim	1293.1851	5000
21171	7590	12/28/2005	EXAMINER	
STAAS & HALSEY LLP			GOKHALE, SAMEER K	
SUITE 700				
1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			2673	

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/654,618	KIM ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Sameer K. Gokhale	2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 04 September 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-38 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-38 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    - a) All    b) Some \* c) None of:
      1. Certified copies of the priority documents have been received.
      2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
      3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____.   |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____. | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____.                                   |

## DETAILED ACTION

### *Drawings*

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the limitation that the "input signal is abnormal", first recited on line 4 of claim 1, must be shown or the feature canceled from the claim and all other claims where the feature appears. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1-5, the phrase "input signal is abnormal" first recited on line 4 of claim 1 renders the claims indefinite because it is unclear what is meant by "input signal is abnormal" and the meaning of the phrase is not adequately defined in the specification, in other words, it is not clear what the input signal looks like to be considered as a normal or abnormal input signal.

Regarding claims 6-10, the phrase "input signal is abnormal" first recited on line 3 of claim 6 renders the claims indefinite for the same reasons discussed above.

Regarding claims 11-24, the phrase "input signal is abnormal" first recited on line 4 of claim 11 renders the claims indefinite for the same reasons discussed above.

Regarding claims 25-38, the phrase "input signal is abnormal" first recited on line 3 of claim 25 renders the claims indefinite for the same reasons discussed above.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 1, 6, 11, and 25 are rejected under 35 U.S.C. 102(b) as being by anticipated by Griesshaber et al. (US 4,507,683) (hereafter, "Griesshaber").

Regarding claim 1, Griesshaber teaches a display device (Fig. 2, where the entire system excluding the cameras constitutes a display device) comprising: a signal identifying unit that (Fig. 2, item 100) receives an input signal and identifies the type of the input signal (see col. 3, lines 38-42, where identifying which camera the signal is coming from is a form of identifying the type of signal); a signal checking unit that checks whether the identified input signal is abnormal (see col. 3, lines 5-11, where by checking for errors from the camera signals it is checking to see if the signal is abnormal); and a signal changing unit (Fig. 2, item 106, the camera select unit) that switches from the checked input signal to a next input signal to be checked so that the signal checking unit checks whether the next input signal is abnormal, after the signal checking unit checks whether the identified input signal is abnormal (see col. 4 lines 22 – 24, where it is inherent that if the video signals are multiplexed then after checking one camera signal for errors, it must then check a next camera signal for errors).

Regarding claim 6, Griesshaber teaches a method of checking a signal input into a display device (Fig. 2, where the entire system excluding the cameras constitutes a display device), the method comprising: receiving the input signal and identifying a type of the input signal that is received (see col. 3, lines 38-42, where identifying which camera the signal is coming from is a form of identifying the type of signal); checking whether the identified input signal is abnormal (see col. 3, lines 5-11, where by checking for errors from the camera signals it is checking to see if the signal is abnormal); and switching from the checked input signal to a next input signal to be checked so that whether the next input signal is abnormal is checked, after the input signal is checked and found to be abnormal (see col. 4 lines 22 – 24, and see col. 3, lines 5-11, where it is inherent that if the video signals are multiplexed then after checking one camera signal for errors, it must then check a next camera signal for errors, and if the display is showing the status of multiple signals at one time then it must be checking a next input signal even after a previous signal was found to be in error).

Regarding claim 11, Griesshaber teaches a display device (Fig. 2, where the entire system excluding the cameras constitutes a display device) comprising: a signal identifying unit (Fig. 2, item 100) receiving an input signal and identifying the type of received input signal (see col. 3, lines 38-42, where identifying which camera the signal is coming from is a form of identifying the type of signal); a signal checking unit (Fig. 2, item 10) checking whether the identified input signal is abnormal (see col. 3, lines 5-11, where by checking for errors from the camera signals it is checking to see if the signal is abnormal); and a signal changing unit (Fig. 2, item 106, the camera select unit)

switching from the checked input signal to check a next input signal so that the signal checking unit checks whether the next input signal is abnormal (see col. 4 lines 22 – 24, where it is inherent that if the video signals are multiplexed then after checking one camera signal for errors, it must then check a next camera signal for errors).

Regarding claim 25, Griesshaber teaches a method of checking a signal input into a display device (Fig. 2, where the entire system excluding the cameras constitutes a display device), the method comprising: receiving an input signal and identifying the type of received input signal (see col. 3, lines 38-42, where identifying which camera the signal is coming from is a form of identifying the type of signal); checking whether the received and identified input signal is abnormal (see col. 3, lines 5-11, where by checking for errors from the camera signals it is checking to see if the signal is abnormal); and switching from the checked input signal to a next received and identified input signal to check whether the next received and identified input signal is abnormal (see col. 4 lines 22 – 24, where it is inherent that if the video signals are multiplexed then after checking one camera signal for errors, it must then check a next camera signal, which is also identified by camera number, for errors).

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nada et al. (US 20010027537) . teaches a technique of monitoring abnormality in plurality of computers or controllers. Kim (US 5,712,690) teaches an apparatus and method for diagnosing received broadcast signals using sync

signals and signal level. Shinada et al. (US 4993013) teaches a monitor system for multiplex equipment that checks for an error on one signal, and if an error is found then proceeds to a next channel to check for an error to determine if the error is external or internal.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sameer K. Gokhale whose telephone number is (571) 272-5553. The examiner can normally be reached on M-F 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (571) 272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SKG  
December 16, 2005

Sameer Gokhale  
Examiner  
Art Unit 2673



JIMMY NGUYEN  
PRIMARY EXAMINER